

COMPOSITIONS AND METHODS FOR INHIBITION OF HIV-1 INFECTION

Abstract of the Disclosure

This invention provides a composition which comprises an
5 admixture of three compounds, wherein: (a) one compound is
an antibody which binds to a CCR5 receptor; (b) one compound
retards attachment of HIV-1 to a CD4+ cell by retarding
binding of HIV-1 gp120 envelope glycoprotein to CD4 on the
10 surface of the CD4+ cell; and (c) one compound retards gp41
from adopting a conformation capable of mediating fusion of
HIV-1 to a CD4+ cell by binding noncovalently to an epitope
on a gp41 fusion intermediate; wherein the relative mass
ratio of any two of the compounds in the admixture ranges
15 from about 100:1 to about 1:100, the composition being
effective to inhibit HIV-1 infection of the CD4+ cell. This
invention also provides a method of inhibiting HIV-1
infection of a CD4+ cell which comprises contacting the CD4+
cell with an amount of the composition of the subject
20 invention effective to inhibit HIV-1 infection of the CD4+
cell so as to thereby inhibit HIV-1 infection of the CD4+
cell.

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